

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/043447

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D471/04 C07D471/14 A61K31/437 A61P37/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BEILSTEIN Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/76519 A (3M INNOVATIVE PROPERTIES COMPANY) 21 December 2000 (2000-12-21) claim 1; examples 1-231	1-34
A	----- WERMUTH ET AL: "The Practise of Medicinal Chemistry" PRACTICE OF MEDICINAL CHEMISTRY, 1996, pages 203-237, XP002190259 page 209	1-34
X	----- WO 03/103584 A (3M INNOVATIVE PROPERTIES COMPANY) 18 December 2003 (2003-12-18)  claims 1,15; examples 34-53,102,113,117,118 ----- -/--	1-3,9, 10, 13-28, 33,34

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

16 August 2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/096998 A1 (GERSTER JOHN F ET AL) 22 May 2003 (2003-05-22)  claim 1	1,2,7,8, 11, 13-28, 31,32
P,X	WO 2004/058759 A (3M INNOVATIVE PROPERTIES COMPANY) 15 July 2004 (2004-07-15) pages 201-214; claim 10	1-34
X	US 6 525 064 B1 (DELLARIA JOSEPH F ET AL) 25 February 2003 (2003-02-25)  claim 1; examples 6,31,70,88,113,136	1-3,9, 10, 13-28, 33,34

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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1(part),2(part),3,9,10,13-28(part),33,34

Compounds according to claim 1 in which RA and RB independently are substituents.  
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2. claims: 1(part),2(part),4,5,12-28(part),29,30

Compounds according to claim 1 in which RA and RB taken together form a fused aryl ring.  
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3. claims: 1(part),2(part),6,12-28(part)

Compounds according to claim 1 in which RA and RB taken together form a fused 5 to 7 membered saturated ring.  
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4. claims: 1(part),2(part),7,8,11,13-28(part),31,32

Compounds according to claim 1 in which RA and RB taken together form a fused heteroaryl- or a 5 to 7 membered saturated heterocyclic-ring.  
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Information on patent family members

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